



ADDENDUM #2

March 11, 2016

Food Lab Renovations at North Buncombe & Clyde A. Erwin High Schools Food Lab Renovations at Enka High School Buncombe County Schools, Asheville, NC

The following changes, revisions, additions, and/or clarifications to the original plans, specifications, and/or other construction documents are hereby made a part of the original documents. Bidders shall acknowledge receipt of this addendum by notation in the space provided on the Form of Proposal.

Please staple this and all addenda inside the front cover of the project manual.

GENERAL ITEMS - APPLICABLE TO BOTH PROJECTS

Item 16 Potential Bidders

The following General Contractors are known to have expressed interest in the Projects. This information is being provided as a courtesy to subcontractors, and does not necessarily represent an accurate or complete list of bidders.

B Allen Construction	Brad Allen	828-665-8479
Bolton Construction & Service of WNC	Steve Harrower	828-253-3621
Carolina Cornerstone Construction	Scott MacAlister	828-242-2967
Griffin Realty & Construction Enterprises	Chris Warner	828-772-9536
Heritage Restoration & Construction	Casey Carmichael	828-216-3658
Patton Construction Group	Tyler Holland	828-687-7087

Item 17 Unit Prices

Refer to the Project Manual, Table of Contents, and Addendum #1, Revised Proposal Form A and Revised Proposal Form B. Insert Section 01 2200 Unit Prices, attached, into the Project Manual, and revise the Table of Contents to include this Section. Unit prices for additional excavation, additional crushed stone base, and increased depth of concrete slabs on grade have been added to the Project.

Newly revised proposal forms for both projects, labeled "2nd REVISED PROPOSAL FORM," are attached. Revised proposal forms included in Addendum #1 are void.

Item 18 Casework Alternates

Refer to the Project Manual, Section 01 2300, and Addendum #1, Revised Proposal Form A and Revised Proposal Form B. Refer to the revised Section 01 2300 Alternates, attached, for descriptions of new Alternate No. 4 for North Buncombe High School, new Alternate 5 for Erwin High School, and new Alternate No. 1 for Enka High School. These alternates are for preferred brand casework to be provided

at each school in lieu of base bid casework. Base bids will include contractor's choice of casework complying with the requirements of Section 12 3553, or approved equals.

Newly revised proposal forms for both projects, labeled "2nd Revised Proposal Form," are attached. Revised proposal forms included in Addendum #1 are void.

Item 19 Asbestos Reports

Refer to the Project Manual, Section 02 4100 Demolition. No asbestos is anticipated in the areas being renovated. Contractors are advised to stop work and notify the architect immediately if suspicious materials are encountered during the course of demolition work. A copy of the asbestos survey for each campus is available for review upon request in the owner's offices.

Item 20 Resilient Vinyl Tile Specification

Refer to the Project Manual, Table of Contents. Specification section 09 6519 Resilient Vinyl Tile was not included in the Project Manual. A copy of that section is attached.

Item 21 Appliances

Refer to the Project Manual, Section 11 3100 Appliances. A one-year warranty is required for each appliance. Warranties must be applicable to appliances installed in a **non-residential** setting. At the Appliances Schedule, Item 1 Slide-In Electric Range, change the basis of design to Bosch HEI8054U. For Item 2 Slide-In Induction Range, change the basis of design model to Bosch HIIP054U. For Item 3 Induction Cooktop, change the basis of design to Bosch NIT 8066UC.

Item 22 Wood Casework

Refer to the Project Manual, Section 12 3553 Wood Laboratory Casework. At paragraph 2.03.C, change cabinet style to lipped construction partially recessed into cabinet front. Replace paragraph 2.03 P with "Fixture Locations: Cut and drill casework as required for service outlets." Cutting and drilling of countertops is included in Section 12 3600. At paragraph 2.04.D, change wood species to Maple.

Item 23 Countertops

Refer to the Project Manual, Section 12 3600 Countertops. Note that the fabricator of countertops may be any firm complying with the requirements of the specification, but the countertops must be installed by the same firm installing the casework.

Item 24 Hood MAU Air Supply Grilles

Hood make up air supply grilles shall utilize a TBRI return plenum box. The intent is to field modify the boot to accept an egg crate grille installed inside the plenum so that it is flush with the ceiling grid system. This will allow the hood make up air to drop under lower velocity down in front of the hoods.

Item 25 Fire Alarm Systems

The fire alarm system for all three schools is Notifier. The installing and servicing vendor is MSS Fire and Security, LLC. Contact Steve McDonald, 828/273-8878, steve.mcdonald@mssolutions.com.

Item 26 Emergency Shut-Offs

Provide Room "Emergency Power Shutoff" control per attached Bulletin BD-E2.1-1. This will also shut off the makeup air units for the hoods.

Item 27 Manufacturer Substitutions

Refer to the Project Manual, Section 01 6000 Product Requirements, Paragraph 3.02. The following manufacturers have been submitted for consideration as equals for the products noted. The status of each of the submitted products is noted below. Products and manufacturers approved below shall in all respects meet the requirements of the specifications and the drawings. Approval of the product or manufacturer in no way relieves the manufacturer, supplier, or contractor of their obligation to meet those requirements.

Disapproved

09 6700 Fluid-Applied Flooring

General Polymers FasTop 12S

NORTH BUNCOMBE AND ERWIN HIGH SCHOOLS**Item 28 Mobile Demo Table**

Refer to the Project Manual, Section 11 4000. Add the following paragraph to the Food Service Equipment Schedule at the end of this section. One unit matching this description is required at North Buncombe High School, and should be included in the base bid. One unit is required at Erwin High School, and should be included in Alternate #2.

PART 4 APPLIANCES SCHEDULE**Item 25: Mobile Demo Table**

- A. Basis of Design: Cadco, Model CBC-BIR-3-L6.
- A. Description: Provide mobile cooking demonstration cart with the following features:
 - 1. Nominal 53 by 26 inches, 49 inches high.
 - 1. Stainless steel frame and countertop, two stainless steel undershelves, one open compartment fitted with five angle slides to accommodate half-size sheet pans.
 - 2. Plastic laminate side and front panels.
 - 1. Single-burner induction range in countertop, 1,400 W, 120V single phase operation.
 - 2. Refrigerated buffet server in countertop, clear polycarbonate lid, configured to accommodate three third-size steam pans, 120V single phase operation. Provide two sets of steam pans.
 - 3. Heavy duty swivel casters, lockable.
 - 4. Corner bumpers and cart handles.
 - 5. Cord and plug.

Item 29 Slabs on Grade, North Buncombe

Refer to the Drawings for North Buncombe High School, Sheets D1.1 and A2.1. For bidding purposes, existing slabs on grade are 4" concrete reinforced with WWF, installed over a vapor barrier over 4" crushed stone. There is rebar, two continuous bars, in the slab edge turn-down illustrated at Detail 2/D1.1. Unit prices have been added to the Project to provide a basis of compensation for accommodating existing conditions which do not meet this description - see Item 17, above. The crushed stone base shown at Detail 2/A2.1 shall be 4" thick.

Item 30 Underground Ducting, North Buncombe High

Refer to the Drawings, North Buncombe Sheet M1.1, Keyed Notes 3 & 4. Underground ducting for the downdraft exhaust systems shall be 24 gauge PVC coated ducting, UNI-COAT, as manufactured by United McGill, or equal. Install per manufacturer's guidelines.

Item 31 Ceiling Diffusers & Exhaust Grilles, North Buncombe High

Refer to the Drawings, North Buncombe Sheet M2.1, Supply Diffuser Schedule and Exhaust/Transfer Grille Schedule. The ceiling diffusers shall be Price model AMDA aluminum, or equal, in lieu of steel. The exhaust grilles shall be Price model 635 aluminum, or equal, in lieu of steel.

Item 32 MAU Designations, North Buncombe High

Refer to the Drawings, North Buncombe Sheet E1.1. Change MAU-3 to MAU-1 for main hood. Change MAU-1 to MAU-2 for range and cooktop hoods.

Item 33 Hood 2, North Buncombe High

Refer to the Drawings, North Buncombe Sheet E1.1. Delete "Hood 2" and circuit DD-31,33,35 shown near center south end of room.

Item 34 New Exhaust Fans, North Buncombe High

Refer to the Drawings, North Buncombe Sheet E1.1. Note that exhaust fans, for cooktops, are above ceiling mounted and powered from cooktops.

Item 35 Existing Exhaust Fan, North Buncombe High

Refer to the Drawings, North Buncombe Sheet E1.1. Existing Exhaust Fan in hallway (not shown, see M1.1) is NIC and shall be maintained along with the Unit Ventilators.

Item 36 Courtyard Circuits, North Buncombe High

Refer to the Drawings, North Buncombe Sheet E1.1. Add circuit and Note 21 to exterior receptacle south of east Exit door from Class 118, similar to receptacle shown north of door. Add description to Circuits 46 and 48 in Panel DD: "& Courtyard Benches."

Item 37 Circuits DD-40, DD-57, North Buncombe High

Refer to the Drawings, North Buncombe Sheet E1.1. Add Shunt Trip circuit to DD-40 with #14 wires, change breaker #40 to 15 Amp 1 pole and label: Shunt trip power for panels main breakers. Change circuit DD-40, on south wall hoods, to circuit DD-57.

Item 38 Panel DD, Shunt Trip Coil, North Buncombe High

Refer to the Drawings, North Buncombe Sheet E1.1. Add 120 VAC shunt trip coil to Panel DD main breaker. Add note to Panel DD: "120 VAC shunt trip of main breaker."

Item 39 Panel DD, Breaker 27, 29, 31, North Buncombe High

Refer to the Drawings, North Buncombe Sheet E1.1. Change breaker (27,29,31) to 30 Amp.

Item 40 Partial Power Riser Diagram, North Buncombe High

Refer to the Drawings, North Buncombe Sheet E2.1, Partial Power Riser Diagram. Change feeder to Food Labs to (4) 250 kcmil + #4G. Taps to Panel DD1 shall be (4) 4/O + #4G and tap to Panel DD shall be (4) #1/O + #6G.

Item 41 Keyed Notes, Partial Power Riser Diagram, North Buncombe High

Refer to the Drawings, North Buncombe Sheet E2.1, Partial Power Riser Diagram, Keyed Notes. Add to Note 3: "Provide (4) #1 + #6 to each Panel B and R. Splice as needed in wireway."

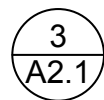
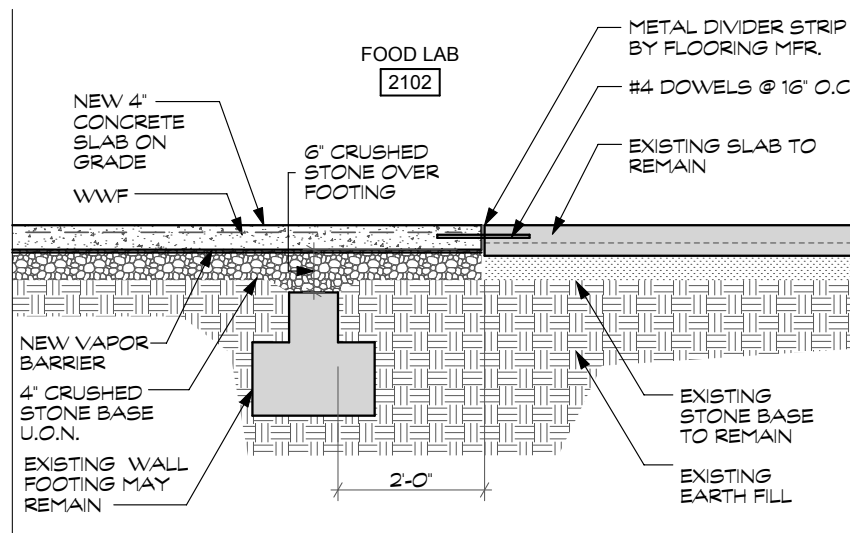
Replace second sentence of Note 4 with the following: "Provide 250 Amp, 100% rated, enclosed circuit breaker, Siemens Type VL or equal. Provide (4) #250 kcmil + #4G tapped to cable buss in wireway."

Add Note 8 to 175 Amp breaker feeding transformer: "Remove breaker and replace with 480 VAC rated 225 Amp enclosed breaker. Provide (3) 4/O + #4 ground to transformer T6 and from source to breaker."

Item 42 Slabs on Grade, Erwin High School

Refer to the Drawings for Erwin High School, Sheets D1.1 and A2.1. For bidding purposes, existing slabs on grade are 4" concrete reinforced with WWF, installed over a vapor barrier over 4" crushed stone. Replace Detail 3/A2.1 with the revision shown below. 6" stone base is required ONLY directly above existing footings which are left in place. In all other locations, 4" stone base is required. Unit prices have been added to the Project to provide a basis of compensation for accommodating existing conditions which do not meet this description - see Item 17, above.

REVISED DETAIL, ERWIN SHEET A2.1



Slab Detail

SCALE: 1/2" = 1'-0"

NEW CONCRETE SLAB ON GRADE SHALL BE 4" THICK, 3,000 PSI, NORMAL WEIGHT CONCRETE INSTALLED OVER VAPOR BARRIER PER SPECIFICATIONS SECTION 03 3000. EXTEND VAPOR BARRIER MIN. 8" DOWN FACE OF EXIST. CONC. WALL. REINFORCEMENT SHALL BE 6 x 6 x W2.9 x W2.9 WWF, PLACED IN TOP THIRD OF SLAB AND NO MORE THAN 1" BELOW TOP SURFACE.

Item 43 Mechanical Chase, Erwin High

Refer to the Drawings, Erwin Sheet M1.2, Keyed Note 1. Revise to read "Remove existing ductwork from the point it leaves the chase through the roof penetration, including exhaust fan. Patching of the chase where the duct is removed will be by the GC." General contractor shall patch the opening in the chase where the duct exits into the mechanical room with 1-hour rated concrete block to restore the chase to a 1-hour rated assembly.

Item 44 Gas Supply to Rooftop Units, Erwin High

Refer to the Drawings, Erwin Sheet M1.3. Provide fuel gas piping on roof for make-up air units as shown on attached bulletin drawing, labeled "Erwin Roof Plan - Gas Piping."

Item 45 Grease Ducting, Erwin High

Refer to the Drawings, Erwin Sheets M1.2, M1.3. Fire rated duct wrap for grease ducting shall extend from the hood up through mechanical room to roof penetration. Chase in mechanical room is not required. See attached bulletin drawing, labeled "System No. C-AJ-7096" for penetration detail.

Item 46 Ceiling Diffusers & Exhaust Grilles, Erwin High

Refer to the Drawings, Erwin Sheet M2.1, Supply Diffuser Schedule and Exhaust/Transfer Grille Schedule. Diffusers and grilles shall be aluminum. See attached bulletin drawing labeled "Revised Diffuser and Return Grille Schedule - Erwin High School" for revised schedules.

Item 47 Roof Receptacles, Erwin High

Refer to the Drawings, Erwin Sheet E1.1. Add to roof two GFCI weatherproof receptacles with in-use covers, on parapet walls between exhaust fans and makeup air units. Circuit to 2FL-45 and label: Roof Receptacles.

Item 48 Courtyard Receptacles, Erwin High

Refer to the Drawings, Erwin Sheet SP1.1, Alternate 3 Site Plan. Provide (2) GFCI weatherproof, cast aluminum receptacles with in-use covers at 6' to either side of door to courtyard using circuits 2FL-51,51. Provide ¾" C., (3) #10, #10G using common neutral. Receptacles shall be recessed in wall. Provide (2) GFCI weatherproof, cast aluminum receptacles with in-use covers under new benches in courtyard; see architectural drawings for locations. Provide 1"C., (2) #12, #12G from building to courtyard receptacles.

Item 49 Emergency Shut-Off, Erwin High

Refer to the Drawings, Erwin Sheet E1.1. Reference Food Lab Keyed Note 6 to Bulletin Dwg. BD-E2.1-1, attached. Shutdown controls must shut off two makeup air units.

Item 50 Panel 2FL, Erwin High

Refer to the Drawings, Erwin Sheet E1.1. At Panel 2FL change to 54 pole (move Dryer breaker to 49,51, Shunt Trip to 53). Make main breaker 150 Amp.

ENKA HIGH SCHOOL**Item 51 Radiation Damper, Enka High**

Refer to the Drawings, Enka Sheet M2.1. Return grille E-A shall be provided with a radiation damper.

Item 52 Fire Alarm Relay, Enka High

Refer to the Drawings, Enka Sheet E1.1. Add Note 20 as follows: Provide Fire Alarm Relay on Makeup Air Unit Control Panel to shut down makeup air unit on evacuation alarm which is shown on "Emergency Power Shutoff" control. (General Item 26 Above). Use local NAC circuit.

End of Addendum #2**Attachments:**

2nd Revised Proposal Forms

Section 01 2200 Unit Prices

Revised Section 01 2300 Alternates

Section 09 6519 Resilient Tile Flooring

Bulletin Drawing E2.1-1

Bulletin Drawing Erwin Roof Plan - Gas Piping

Bulletin Drawing System No. C-AJ-7096

Bulletin Drawing Revised Diffuser and Return Grille Schedule - Erwin High School

****2nd REVISED PROPOSAL FORM A****
FOOD LAB RENOVATIONS FOR ENKA HIGH SCHOOL
RFP#05-16 DUE DATE: 03/16/16 TIME: 2:00pm

By submitting this proposal, the potential contractor certifies the following:

- ** This proposal is signed by an authorized representative of the firm.
- ** It can obtain and submit to the Owner insurance certificates as required within 5 calendar days after notice of award.
- ** The cost and availability of all equipment, materials, and supplies associated with performing the services described herein have been determined and included in the proposed cost.
- ** All labor costs, direct and indirect, have been determined and included in the proposed cost.
- ** All taxes have been determined and included in the proposed cost.
- ** The offeror has attended the conference (*if applicable*) or conducted a site visit and is aware of prevailing conditions associated with performing these services.
- ** The potential contractor has read and understands the conditions set forth in this RFP and agrees to them with no exceptions.

Therefore, in compliance with this Request for Proposals, and subject to all conditions herein, the undersigned offers and agrees, if this proposal is accepted within 60 days (normally less) from the date of the opening, to furnish the subject services for a cost not to exceed:

OFFEROR: _____

BASE BID: The food lab for Enka High School as stated in specifications.

\$ _____ dollars and ____/100 \$ _____

ALTERNATE #1: Preferred brand casework, Enka High School.

\$ _____ dollars and ____/100 \$ _____

UNIT PRICE #1: Removal and disposal of existing soils at new interior slabs on grade, per Cubic Yard (CY).

\$ _____ dollars and ____/100 \$ _____

UNIT PRICE #2: Provide and place additional crushed stone base, per Cubic Yard (CY).

\$ _____ dollars and ____/100 \$ _____

UNIT PRICE #3: Increase depth of new concrete slabs, per Cubic Yard (CY).

\$ _____ dollars and ____/100 \$ _____

Number of addenda received: _____ Attended Pre-bid conference: (Yes/ No) _____

Proposal Form continued on Next Page

****2nd REVISED PROPOSAL FORM A****
FOOD LAB RENOVATIONS FOR ENKA HIGH SCHOOL
RFP#05-16 DUE DATE: 03/16/16 TIME: 2:00pm

OFFEROR: _____

ADDRESS: _____

CITY, STATE, ZIP: _____

TELEPHONE NUMBER: _____ FAX: _____

FED ID No: _____ Type & License #: _____

E-MAIL: _____ MBE Status: _____

Principal Place of Business if different from above (See General Information on Submitting Proposals, Item 18.):

BY: (Signature) _____ TITLE: _____

DATE: _____ (Typed or printed name) _____

END OF PROPOSAL FORM A

Please include this proposal form in its own separate sealed envelope.
Bid bond is not required with this proposal form.

****2nd REVISED PROPOSAL FORM B****
FOOD LAB RENOVATIONS FOR
NORTH BUNCOMBE & ERWIN HIGH SCHOOLS
RFP#05-16 DUE DATE: 03/16/16 TIME: 2:00pm

By submitting this proposal, the potential contractor certifies the following:

- ** This proposal is signed by an authorized representative of the firm.
- ** It can obtain and submit to the Owner insurance certificates as required within 5 calendar days after notice of award.
- ** The cost and availability of all equipment, materials, and supplies associated with performing the services described herein have been determined and included in the proposed cost.
- ** All labor costs, direct and indirect, have been determined and included in the proposed cost.
- ** All taxes have been determined and included in the proposed cost.
- ** The offeror has attended the conference (*if applicable*) or conducted a site visit and is aware of prevailing conditions associated with performing these services.
- ** The potential contractor has read and understands the conditions set forth in this RFP and agrees to them with no exceptions.

Therefore, in compliance with this Request for Proposals, and subject to all conditions herein, the undersigned offers and agrees, if this proposal is accepted within 60 days (normally less) from the date of the opening, to furnish the subject services for a cost not to exceed:

OFFEROR: _____

BASE BID: The food lab for North Buncombe High School as stated in specifications.

\$ _____ dollars and ____/100 \$ _____

ALTERNATE #1: North Buncombe High School site improvements.

\$ _____ dollars and ____/100 \$ _____

ALTERNATE #2: The food lab for Erwin High School as stated in specifications.

\$ _____ dollars and ____/100 \$ _____

ALTERNATE #3: Erwin High School site improvements.

\$ _____ dollars and ____/100 \$ _____

ALTERNATE #4: Preferred brand casework, North Buncombe High School.

\$ _____ dollars and ____/100 \$ _____

ALTERNATE #5: Preferred brand casework, Erwin High School.

\$ _____ dollars and ____/100 \$ _____

Proposal Form continued on Next Page

****2nd REVISED PROPOSAL FORM B****
FOOD LAB RENOVATIONS FOR THREE HIGH SCHOOLS
RFP#05-16 DUE DATE: 03/16/16 TIME: 2:00pm

UNIT PRICE #1: Removal and disposal of existing soils at new interior slabs on grade, per Cubic Yard (CY).

\$ _____ dollars and ____/100 \$ _____

UNIT PRICE #2: Provide and place additional crushed stone base, per Cubic Yard (CY).

\$ _____ dollars and ____/100 \$ _____

UNIT PRICE #3: Increase depth of new concrete slabs, per Cubic Yard (CY).

\$ _____ dollars and ____/100 \$ _____

Number of addenda received: _____ Attended Pre-bid conference: (Yes/ No) _____

OFFEROR: _____

ADDRESS: _____

CITY, STATE, ZIP: _____

TELEPHONE NUMBER: _____ FAX: _____

FED ID No: _____ Type & License #: _____

E-MAIL: _____ MBE Status: _____

Principal Place of Business if different from above (See General Information on Submitting Proposals, Item 18.):

BY: (Signature) _____ TITLE: _____

DATE: _____ (Typed or printed name) _____

END OF PROPOSAL FORM B

Bid bond and MBE forms are required. Bidder must use bond forms included in the bid package. Please include bid bond and MBE forms in separate sealed envelope from proposal form.

SECTION 01 2200
UNIT PRICES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. List of unit prices, for use in preparing Bids.
- B. Measurement and payment criteria applicable to Work performed under a unit price payment method.

1.02 RELATED REQUIREMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, Division 1 Specification Sections and addenda apply to this Section.

1.03 DEFINITIONS

- A. **UNIT PRICE:** Unit price is an amount proposed by bidders, stated on the Form of Proposal, as a price per unit of measurement for materials or services added to or deducted from the Contract Sum by appropriate modification, if the estimated quantities of Work required by the Contract Documents are increased or decreased.

1.04 COSTS INCLUDED

- A. Unit Prices included on the Bid Form shall include all necessary material, plus full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; applicable taxes, insurance, overhead and profit.

1.05 MEASUREMENT OF QUANTITIES

- A. The type of measurement for each unit price is identified in the Schedule of Unit Prices at the end of the section.
- B. Measurement methods delineated in the individual specification sections complement the criteria of this section. In the event of conflict, the requirements of the individual specification section govern.
- C. Take all measurements and compute quantities. Measurements and quantities will be verified by Architect.
- D. Assist by providing necessary equipment, workers, and survey personnel as required.
- E. The Owner reserves the right to reject the Contractor's measurement of work-in-place that involves use of established unit prices, and to have this work measured, at the Owner's expense, by an independent surveyor acceptable to the Contractor.

1.06 PAYMENT

- A. Payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities of Work that is incorporated in or made necessary by the Work and accepted by the Architect, multiplied by the unit price.
- B. Payment will not be made for any of the following:
 - 1. Products wasted or disposed of in a manner that is not acceptable.
 - 2. Products determined as unacceptable before or after placement.
 - 3. Products not completely unloaded from the transporting vehicle.
 - 4. Products placed beyond the lines and levels of the required Work.
 - 5. Products remaining on hand after completion of the Work.
 - 6. Loading, hauling, and disposing of rejected Products.

1.07 SCHEDULE OF UNIT PRICES

- A. Unit Price 1: Removal and disposal of existing soils in preparation for new interior slabs on grade, per Cubic Yard (CY).
- B. Unit Price 2: Provide and place additional crushed stone base, per Cubic Yard (CY).
- C. Unit Price 3: Increase depth of new concrete slabs, per Cubic Yard (CY).

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

**SECTION 01 2300
ALTERNATES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Description of alternates.
- B. Procedures for pricing alternates.

1.02 RELATED REQUIREMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary General Conditions, Division 1 Specification Sections and Addenda apply to this Section.

1.03 DEFINITIONS

- A. Definition: An alternate is an amount proposed by bidders and stated on the Form of Proposal for certain work defined in the Bidding Requirements that may be added to the Base Bid amount if the Owner decides to accept a corresponding change in either the amount of construction to be completed, or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. The cost or credit for each alternate is the net addition to the Contract Sum to incorporate the Alternate into the Work. No other adjustments will be made to the Contract Sum.

1.04 ACCEPTANCE OF ALTERNATES

- A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted alternates will be identified in the Owner-Contractor Agreement.
- B. Coordinate related work and modify surrounding work to integrate the Work of each alternate.
- C. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not mentioned as part of the Alternate.
- D. Notification: Immediately following the award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate whether alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- E. Execute accepted alternates under the same conditions as other Work of this Contract.

1.05 SCHEDULE OF ALTERNATES, NORTH BUNCOMBE & ERWIN HIGH SCHOOLS

- A. Alternate No. 1 - North Buncombe Site Improvements:
Alternate 1 includes furnishing and installation of site improvements adjacent to the North Buncombe food lab for use as an outdoor food lab. The base bid for the same area includes only a new concrete walk as shown on the plans.
- B. Alternate No. 2 - Erwin Food Lab Renovations:
Alternate 2 includes all work associated with food lab renovations for Clyde A. Erwin High School. Outdoor Food Lab Improvements for Clyde A. Erwin High School are included in Alternate 3. The base bid includes no work at Erwin High School.
- C. Alternate No. 3 - Erwin High School Site Improvements:
Alternate 3 includes furnishing and installation of site improvements adjacent to the Erwin food lab for use as an outdoor food lab. Alternate No. 3 will not be awarded independent of Alternate 2. The base bid includes no work at Erwin High School.
- D. Alternate No. 4 - Preferred Brand Casework, North Buncombe High School:
Contractors shall provide a separate preferred brand alternate price to provide and install Leonard Peterson & Co., Century Series casework at North Buncombe High School in lieu of

that specified in the contract documents. The base bid includes contractor's choice of casework complying with the requirements of Section 12 3553, or approved equals.

- E. Alternate No. 5 - Preferred Brand Casework, Erwin High School:
Contractors shall provide a separate preferred brand alternate price to provide and install Leonard Peterson & Co., Century Series casework at Erwin High School in lieu of that specified in the contract documents. The base bid includes contractor's choice of casework complying with the requirements of Section 12 3553, or approved equals. Alternate No. 5 will not be awarded independent of Alternate 2.

1.06 SCHEDULE OF ALTERNATES, ENKA HIGH SCHOOL

- A. Alternate No. 1 - Preferred Brand Casework, Enka High School:
Contractors shall provide a separate preferred brand alternate price to provide and install Leonard Peterson & Co., Century Series casework at Enka High School in lieu of that specified in the contract documents. The base bid includes contractor's choice of casework complying with the requirements of Section 12 3553, or approved equals.

END OF SECTION

**SECTION 09 6519
RESILIENT TILE FLOORING**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Resilient tile flooring.
- B. Installation accessories.

1.02 RELATED REQUIREMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary General Conditions, Division 1 Specification Sections, and Addenda, apply to this Section.
- B. Section 01 7800 - Closeout Submittals.
- C. Section 03 3000 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors.
- D. Section 09 6513 - Resilient Base & Accessories: Resilient base.

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Sequence work to ensure resilient flooring is not installed until other finishing operations, including painting, have been completed.

1.04 SUBMITTALS

- A. See Section - Product Requirements, for submittal procedures.
- B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.
- C. Qualification Data: Indicating compliance with Quality Assurance Article.
- D. Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.
- E. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.
- F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 01 6000 - Product Requirements, for additional provisions.
 - 2. Extra Flooring Material: One box for each 50 boxes or fraction thereof, of each type of resilient floor tile installed

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing specified resilient tile flooring with minimum five years documented experience.
- B. Installer Qualifications: Company specializing in installing resilient tile flooring with minimum three years experience.

1.06 FIELD CONDITIONS

- A. Maintain temperature in storage area between 55 degrees F and 90 degrees F.
- B. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

PART 2 PRODUCTS

2.01 TILE FLOORING

- A. Vinyl Composition Tile: Homogeneous, with pattern extending throughout thickness, and as follows:

1. Minimum Requirements: Comply with ASTM F 1066, Class 2.
2. Static Load Limit: 125 psi per ASTM F970.
3. Size: 12 x 12 inch.
4. Thickness: 0.125 inch.
5. Pattern: Fine-scale marbleized.
6. Color: [As selected from manufacturer's full line.](#)
7. Products: Subject to compliance with the specifications, available products include"
 - a. Standard Excelon, Armstrong World Industries, Inc.
 - b. Azrock VCT, Johnsonite.
 - c. Essentials, Mannington Mills, Inc.
 - d. Expressions, Tarkett Inc.
 - e. Substitutions: See Section 01 6000 - Product Requirements.

2.02 ACCESSORIES

- A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.
- B. Primers, Adhesives, and Seaming Materials: Waterproof; types recommended by flooring manufacturer.
- C. Moldings, Transition and Edge Strips: As specified in Section 09 6513.
- D. Sealer and Wax: Types recommended by flooring manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.
- B. Moisture and Alkalinity Testing: Verify that concrete sub-floor surfaces are dry enough and ready for resilient flooring installation by testing for moisture emission rate and alkalinity in accordance with ASTM F 710; obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.

3.02 PREPARATION

- A. Prepare sub-floor surfaces as recommended by flooring and adhesive manufacturers.
- B. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.
- C. Prohibit traffic until filler is cured.
- D. Clean substrate.
- E. Apply primer as required to prevent "bleed-through" or interference with adhesion by substances that cannot be removed.

3.03 INSTALLATION

- A. Starting installation constitutes acceptance of sub-floor conditions.
- B. Install in accordance with manufacturer's instructions.
- C. Spread only enough adhesive to permit installation of materials before initial set.
- D. Fit joints tightly.
- E. Set flooring in place, press with heavy roller to attain full adhesion.
- F. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.
- G. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

3.04 RESILIENT TILE FLOORING

- A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless manufacturer's instructions say otherwise.
- B. Lay flooring with joints and seams parallel to building lines to produce symmetrical tile pattern.
- C. Install tile to basket weave pattern. Allow minimum 1/2 full size tile width at room or area perimeter.

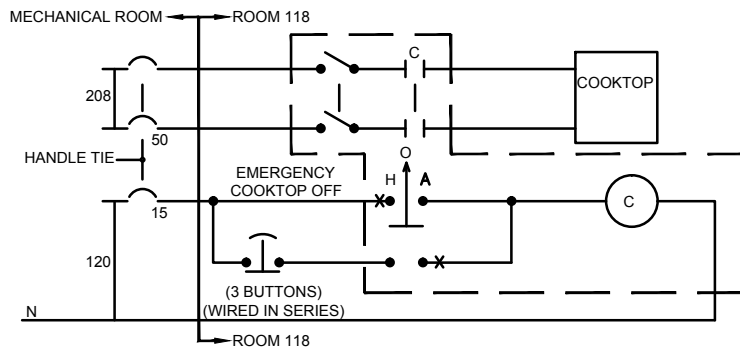
3.05 CLEANING

- A. Remove excess adhesive from floor, base, and wall surfaces without damage.
- B. Clean, seal and polish in accordance with manufacturer's instructions.

3.06 PROTECTION

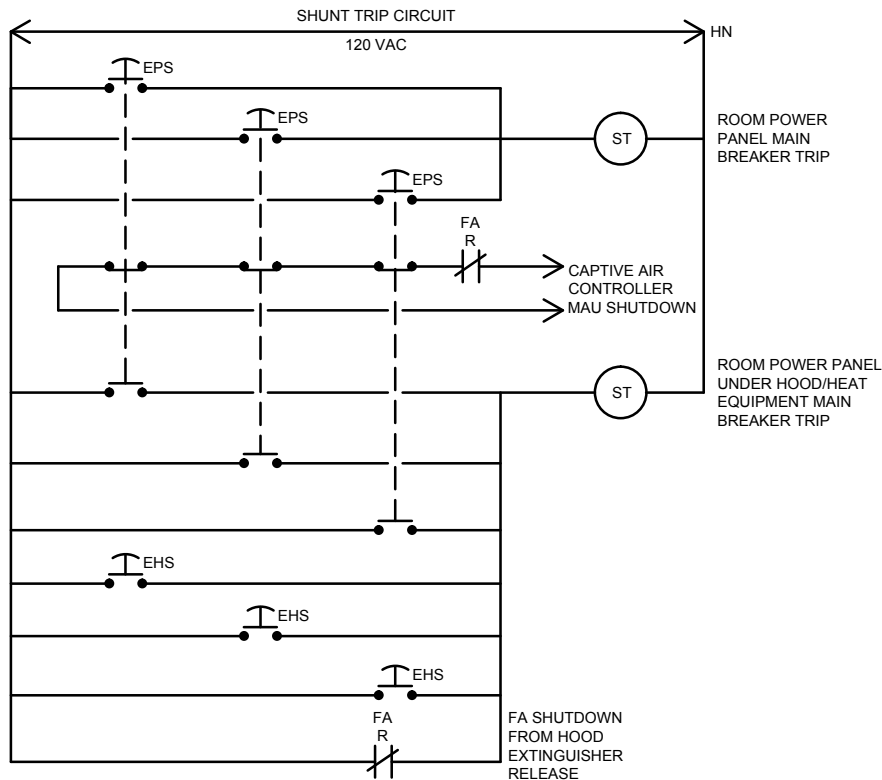
- A. Prohibit traffic on resilient flooring for 48 hours after installation.
- B. Cover resilient flooring with undyed, untreated building paper until inspection for Substantial Completion. Protect flooring against damage from construction operations during remainder of construction period.
- C. Clean resilient flooring not more than 4 days prior to dates scheduled for inspections intended to establish date of Substantial Completion in each area of Project. Use method recommended by manufacturer.
- D. Prior to cleaning resilient vinyl tile, strip protective floor polish that was applied after installation. Reapply floor polish after cleaning.

END OF SECTION



2 NORTH BUNCOMBE ROOM 118 EMERGENCY SHUTDOWN

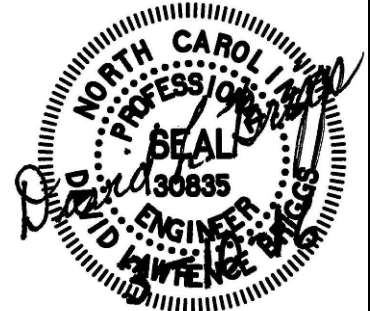
E2.1 NTS



ST: SHUNT TRIP
 EHS: EMERGENCY HOOD/HEAT SHUTDOWN
 EPS: EMERGENCY ROOM POWER SHUTDOWN
 MAU: MAKEUP AIR UNIT
 NOTE: ENKA DOES NOT HAVE ST FOR HOOD EQUIPMENT. EHS IS NOT REQUIRED

1 FOOD LAB EMERGENCY POWER SHUTDOWN CONTROLS

E2.1 NTS



SUD ASSOCIATES, P.A.

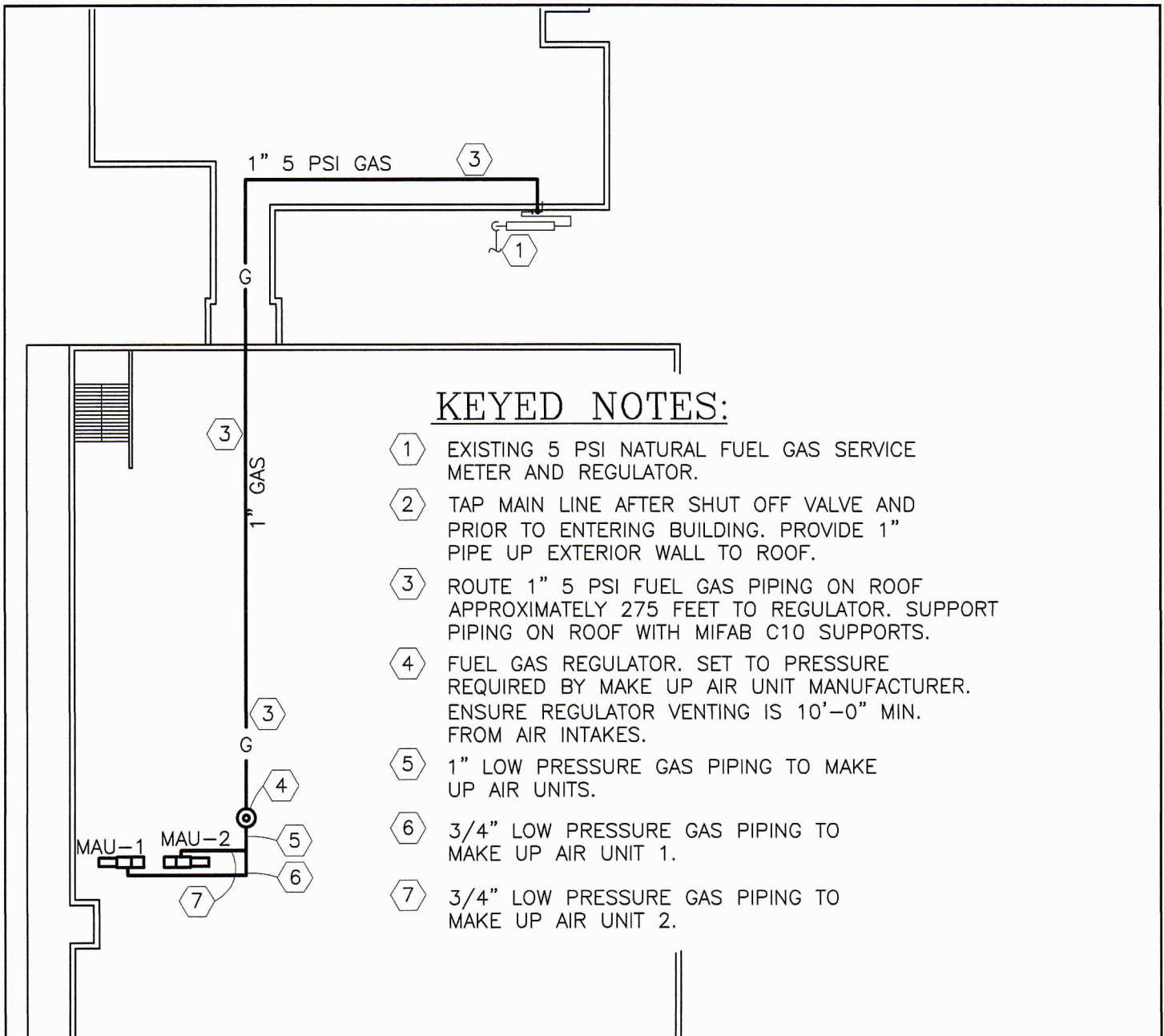
CONSULTING ENGINEERS
 LICENSE NO. C-0315
 1813 CHAPEL HILL ROAD
 DURHAM, NORTH CAROLINA
 (919) 493-5277

FLAT IRON BUILDING SUITE 706
 20 BATTERY PARK AVENUE
 ASHEVILLE, NORTH CAROLINA
 (828) 255-4691

FOOD LAB RENOVATIONS BUNCOMBE COUNTY SCHOOLS

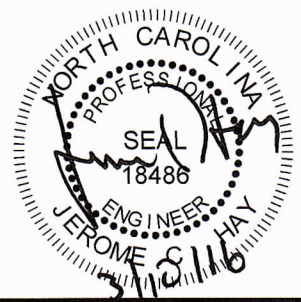
E2.1-1

PROJECT NUMBER	15226
REVIEWED BY	JCH
DESIGNED BY	DLB
DRAWN BY	MPF
DRAWING DATE	3/10/2016



ERWIN ROOF PLAN - GAS PIPING

1/32"=1'-0"



SUD ASSOCIATES, P.A.

CONSULTING ENGINEERS
LICENSE NO. C-0315

1813 CHAPEL HILL ROAD
DURHAM, NORTH CAROLINA
(919) 493-5277

FLAT IRON BUILDING SUITE 706
20 BATTERY PARK AVENUE
ASHEVILLE, NORTH CAROLINA
(828) 255-4691

Food Lab renovations at North Buncombe & Clyde A. Erwin High School

Buncombe County Schools

Asheville, NC

OVERALL ROOF PLAN - ERWIN HIGH SCHOOL

ADDED FUEL GAS PIPING TO OVERALL ROOF PLAN - ERWIN HIGH SCHOOL

PROJECT NUMBER 15226

REVIEWED BY JCH

DESIGNED BY DCR

DRAWN BY DCR

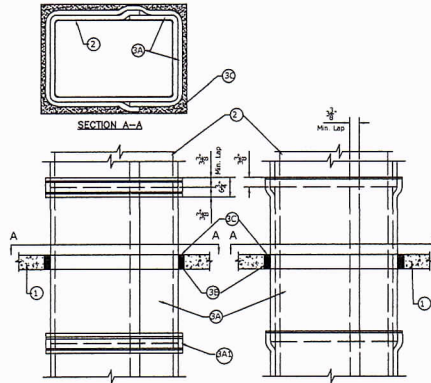
DRAWING DATE 3-10-16

System No. C-AJ-7096

August 14, 2009

F Rating - 2 Hr

T Rating - 2 Hr



1. **Floor or Wall Assembly** - Min 4-1/2 in. (114 mm) thick reinforced normal weight (140-150 pcf or 1600-2400 kg/m³) concrete floor or min 5-1/4 in. (133 mm) thick reinforced normal weight concrete wall. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 15 ft² (1.4 m²) with max dimension of 70 in. (1.8 m).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Steel Air Duct** - Min 0.035 in. (0.9 mm) (20 gauge) thick (or heavier) steel duct having a max perimeter of 168 in (4.27 m) with max individual dimension of 60 in (1.52 m) and constructed in accordance with SMACNA HVAC Duct Construction standards. The sections shall be assembled using bolted flanges or SMACNA approved Transverse Joint Reinforcements. Duct to be rigidly supported in accordance with SMACNA requirement and as specified in Item 4. One steel duct to be installed concentrically or eccentrically within the firestop system. Duct to rigidly supported on both sides of floor or wall assembly.

3. **Firestop System** - The firestop system shall consist of the following:

A. **Duct Wrap Materials*** - Min 1-1/2 in. (38 mm) thick blanket totally encapsulated within foil-scrim facers. The steel duct shall be wrapped with two layers of duct wrap installed in accordance with the Ventilation Assembly No. V-20. See Ventilation Duct Assemblies in Vol. 2 of the Fire Resistance Directory. The annular space between the insulated steel air duct and the periphery of the opening shall be a min of 1 in. (25 mm) to a max of 3 in. (76 mm).

3M COMPANY - 3M FireBarrier Duct Wrap 15A, 3M FireBarrier Duct Wrap 20A and FireBarrier Duct Wrap 615+

A1. **Batts and Blankets*** - **Collars** - Min 1-1/2 in. (38 mm) thick, 6 in. (152 mm) wide collars, totally encapsulated within foilscrium facers. The transverse butt joints shall be wrapped using a collar. The collars shall be installed in accordance with the Ventilation Assembly No. V-20. See Ventilation Duct Assemblies in Vol. 2 of the Fire Resistance Directory.

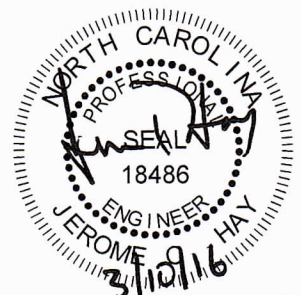
3M COMPANY - 3M FireBarrier Duct Wrap 15A Collars, 3M FireBarrier Duct Wrap 20A Collars and FireBarrier Duct Wrap 615+ Collars

B. **Packing Material** - Min 4 in. (102 mm) thickness of unfaced scrap duct wrap material or min 3 pcf (48 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from the top surface of the floor or both surfaces of wall as required to accommodate the required thickness of fill material.

C. **Fill,Void or Cavity Material* - Sealant** - Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

3M COMPANY - FB 1000 N/S Sealant

*Bearing the UL Classification Mark



SUD ASSOCIATES, P.A.

CONSULTING ENGINEERS
LICENSE NO. C-0315
1813 CHAPEL HILL ROAD
DURHAM, NORTH CAROLINA
(919) 493-5277

FLAT IRON BUILDING SUITE 706
20 BATTERY PARK AVENUE
ASHEVILLE, NORTH CAROLINA
(828) 255-4691

Food Lab renovations at North Buncombe & Clyde A. Erwin High School
Buncombe County Schools
Asheville, NC

ADDED UL DETAIL FOR FIRE WRAPPED GREASE DUCT.

PROJECT NUMBER 15226

REVIEWED BY JCH

DESIGNED BY DCR

DRAWN BY DCR

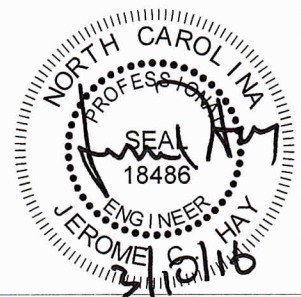
DRAWING DATE 3-10-16

SUPPLY DIFFUSER SCHEDULE										
MARK	TYPE	CFM	FACE SIZE	NECK SIZE	MATERIAL	DAMPER	MANUFACTURER	MODEL	NOTES	
S-A	NOT USED									
S-B	LOUVER FACE	300-500	12 x 12	12"Ø	ALUMINUM	OBD	PRICE	AMDA	T-BAR CLG MOUNTED. 4 WAY THROW	
S-C	LINEAR	650	48" x 10"	14" OVAL	ALUMINUM	NONE	PRICE	TBRI PLENUM MODULE ONLY	T-BAR CLG MOUNTED. PROVIDE EGG CRATE GRILLE. SIZE TO MATCH PLENUM OPENING AND INSTALL FLUSH IN CEILING GRID.	

EXHAUST / TRANSFER GRILLE SCHEDULE										
MARK	TYPE	CFM RANGE	FACE SIZE	NECK SIZE	MATERIAL	DAMPER	MANUFACTURER	MODEL	NOTES	
R-A	T BAR	1100	22 x 22	20 x 20	ALUMINUM	NONE	PRICE	535	FIXED 45° BLADES. TURN BLADES AWAY FROM VIEW	

NOTES:

1. SUPPLY GRILLES INSTALLED IN T-BAR CEILINGS SHALL BE PROVIDED WITH BLANK PANELS.
2. PAINT DUCTING BLACK BEHIND GRILLES AND DIFFUSERS.
3. POWDER COAT FINISH. COLOR BY ARCHITECT.
4. PROVIDE SQUARE TO ROUND DUCT ADAPTERS.
5. APPROVED EQUALS BY METAL-AIRE, TITUS OR CARNES .



SUD ASSOCIATES, P.A.

CONSULTING ENGINEERS
LICENSE NO. C-0315

1813 CHAPEL HILL ROAD
DURHAM, NORTH CAROLINA
(919) 493-5277

FLAT IRON BUILDING SUITE 706
20 BATTERY PARK AVENUE
ASHEVILLE, NORTH CAROLINA
(828) 255-4691

Food Lab renovations at North Buncombe & Clyde A. Erwin High School
Buncombe County Schools
Asheville, NC

REVISED DIFFUSER AND RETURN GRILLE SCHEDULE - ERWIN HIGH SCHOOL

PROJECT NUMBER 15226

REVIEWED BY JCH

DESIGNED BY DCR

DRAWN BY DCR

DRAWING DATE 3-10-16